

# Product data sheet

Specifications



## Motor controller, TeSys T, Motor Management, Ethernet/IP, Modbus/TCP, 6 inputs, 3 outputs, 1.35 to 27A, 100 to 240VAC

LTMR27EFM

### Main

Range	TeSys
Product name	TeSys T
Device short name	LTMR
Product or component type	Motor controller
Device application	Equipment monitoring and control
Measurement current	1.35...27 A
[Us] rated supply voltage	100...240 V AC 50/60 Hz
Current consumption	8...62.8 mA
Supply voltage limits	93.5...264 V AC
Communication port protocol	Modbus TCP/EtherNet/IP
Bus type	Ethernet IEEE 802.3 interface, addressing 0...159, transmission rate 10...100 Mbit/s, RJ45 with 2 shielded twisted pairs

### Complementary

[Ui] rated insulation voltage	690 V conforming to EN/IEC 60947-1 690 V conforming to CSA C22.2 No 14 690 V conforming to UL 508
[Uimp] rated impulse withstand voltage	4 kV supply, inputs and outputs conforming to EN/IEC 60947-4-1 6 kV current or voltage measurement circuit conforming to EN/IEC 60947-4-1 0.8 kV communication circuit conforming to EN/IEC 60947-4-1
Short-circuit withstand	100 kA conforming to EN/IEC 60947-4-1
Associated fuse rating	4 A gG for output 0.5 A gG for control circuit
Protection type	Phase unbalance Earth-leakage protection Thermal protection Reverse polarity protection Power factor variation Overload Load fluctuation Locked rotor Thermal overload protection Phase failure Overload (long time)
Network and machine diagnosis type	Event recording Trip context information Phase fault and earth fault trip counters Trip history information Waiting time after overload tripping Fault recording Remaining operating time before overload tripping Starting current and time Motor control command recording Running hours counter/operating time

<b>Logic input number</b>	6
<b>Input current</b>	3.1 mA at 100 V 7.5 mA at 240 V
<b>Current state 0 guaranteed</b>	Logic input: 0...40 V and $\leq$ 15 mA for 25 ms
<b>Current state 1 guaranteed</b>	Logic input: 79...264 V and $\geq$ 2 mA for 25 ms
<b>maximum output switching frequency</b>	2 Hz
<b>Load current</b>	5 A at 250 V AC for logic output 5 A at 30 V DC for logic output
<b>Permissible power</b>	480 VA (AC-15), $I_e = 2$ A, 500000 cycles (output) 30 W (DC-13), $I_e = 1.25$ A, 500000 cycles (output)
<b>maximum operating rate</b>	1800 cyc/h
<b>Contacts type and composition</b>	1 NO + 1 NC fault signal 3 NO
<b>Metering type</b>	Average current $I_{avg}$ Phase current I1, I2, I3 RMS Imbalance current Earth-fault current Temperature
<b>Measurement accuracy</b>	5...15 % earth fault current internal measurement 1 % voltage (100...830 V) 3 % power factor 5 % earth fault current external measurement $\pm$ 30 min/year internal clock 0,02 temperature 1 % current 5 % active and reactive power
<b>Overvoltage category</b>	III
<b>Connection pitch</b>	5.08 mm
<b>Connections - terminals</b>	Control circuit: connector 1 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.25...2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 1 cable(s) 0.2...2.5 mm <sup>2</sup> (AWG 24...AWG 14) solid without cable end Control circuit: connector 2 cable(s) 0.2...1 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Control circuit: connector 2 cable(s) 0.2...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.5...1.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible without cable end Control circuit: connector 2 cable(s) 0.2...1 mm <sup>2</sup> (AWG 24...AWG 14) solid without cable end
<b>Tightening torque</b>	Control circuit: 0.5...0.6 N.m flat screwdriver 3 mm
<b>Pollution degree</b>	3

<b>Electromagnetic compatibility</b>	Electrostatic discharge, 3, 8 kV air, 6 kV contact, conforming to EN/IEC 61000-4-2 Radiated RF fields, 3, 10 V/m, conforming to EN/IEC 61000-4-3 Fast transients immunity test (other circuits), level 3, 2 kV, conforming to EN/IEC 61000-4-4 Fast transients immunity test (on supply and relay outputs), level 4, 4 kV, conforming to EN/IEC 61000-4-4 Voltage dips and interruptions immunity test, 70 %, 500 ms, conforming to EN/IEC 61000-4-11 Conducted RF disturbances, 10 V, conforming to EN/IEC 61000-4-6 Temperature sensor: surges (serial mode), 0.5 kV, conforming to EN/IEC 61000-4-5 Temperature sensor: surges (common mode), 1 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (serial mode), 1 kV, conforming to EN/IEC 61000-4-5 Communication: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (serial mode), 2 kV, conforming to EN/IEC 61000-4-5 Relay outputs and supply: surges (common mode), 4 kV, conforming to EN/IEC 61000-4-5 Control circuit: surges (common mode), 2 kV, conforming to EN/IEC 61000-4-5
<b>Width</b>	91 mm
<b>Height</b>	61 mm
<b>Depth</b>	122.5 mm
<b>Net weight</b>	0.53 kg
<b>Web services</b>	Web server
<b>Compatibility code</b>	LTMR

## Environment

<b>Standards</b>	IACS E10 UL 508 IEC 60947-4-1 EN 60947-4-1 CSA C22.2 No 14
<b>Product certifications</b>	EAC DNV BV C-Tick CCC ABS RINA RMRoS CSA NOM LROS (Lloyds register of shipping) UL KERI GL ATEX
<b>Protective treatment</b>	12 x 24 hour cycles conforming to EN/IEC 60068-2-30 48 h conforming to EN/IEC 60070-2-11 TH conforming to EN/IEC 60068
<b>Fire resistance</b>	650 °C conforming to EN/IEC 60695-2-12 960 °C conforming to UL 94
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Ambient air temperature for storage</b>	-40...80 °C
<b>Operating altitude</b>	<= 2000 m without derating
<b>Mechanical robustness</b>	Vibrations mounted on symmetrical rail: 1 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6 Vibrations plate mounted: 4 Gn, 5...300 Hz conforming to EN/IEC 60068-2-6 Shocks half sine wave acceleration: 15 Gn for 11 ms conforming to EN/IEC 60068-2-27
<b>IP degree of protection</b>	IP20

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	7.2 cm
<b>Package 1 Width</b>	10.0 cm
<b>Package 1 Length</b>	13.5 cm
<b>Package 1 Weight</b>	530.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	10
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	5.615 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Compliant with Exemptions

SCIP Number

Fc01c523-9a07-4dfa-988f-c721d4816782

Halogen-free status

Halogen free plastic parts product

PVC free

Yes

## Use Again

### Repack and remanufacture


End of life manual availability

[End of Life Information](#)

Take-back

No

WEEE Label

 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins